## **Curriculum Mapping for South Dakota Essential Core Standards**

X = Not taught I = Introduced

R = Reinforced

P = Proficient/practiced

## **Grade 11 Math - Number Sense Includes core standards from grades 9-10**

Indicator 1: Analyze the structural characteristics of the real number system and its various subsystems.					
Standard	Curriculum Map	Resources	Actions Needed		
	(X, I, R, P)				
1. (9) apply properties and					
axioms of the real number					
system to various subsets,					
e.g. axioms of order					
2. (10) understand that real					
numbers can be represented in					
a variety of forms, e.g. integers,					
fractions, decimals, percents,					
scientific notation, exponents,					
radicals, absolute value.					
<b>Indicator 2: Apply number ope</b>	rations with real number	s and other number systems.			
Standard	Curriculum Map	Resources	Actions Needed		
Sumum u	(X, I, R, P)	resources	11010115 1 (00404		
1. (9) evaluate algebraic					
expressions.					
2. (10) add, subtract, multiply,					
and divide real numbers					
including roots and					
exponents using appropriate					
computational strategies,					
e.g. mental mathematics,					
paper and pencil calculator					

## **Grade 11 Math - Number Sense continued:**

<b>Indicator 3: Develop conjecture</b>	es, predictions, or estim	ations to solve problems and vo	erify or justify the results.
Standard	Curriculum Map (X, I, R, P)	Resources	Actions Needed
1. (9) use estimation strategies in complex situations to predict results and to check the reasonableness of results.			
2. (10) select and justify alternative strategies, e.g., use properties of numbers that allow operational shortcuts for computational procedures			
Indicator 4: Analyze the concep	ot of value, magnitude,	and relative magnitude of real	numbers.
Standard	Curriculum Map (X, I, R, P)	Resources	Actions Needed
1. (9) understand the relative size of sets of rational numbers and irrational numbers.			
2. (10) apply operations to numbers expressed in scientific notation.			